

Formation of a Stark echo when external nonresonance laser fields with spatial inhomogeneity have various relative orientations

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Abstract

This paper shows that the response time of a Stark echo can be controlled by varying the relative orientation of inhomogeneous electromagnetic fields. It is found that, if nonresonance laser pulses that are spatially inhomogeneous act on the system, a shift in the appearance time of a Stark echo is observed in the nanosecond range. © 2012 Optical Society of America.

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